




ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

(Please Fill the form and Email it to website@zh.du.ac.in)

Title Dr.	First Name Malti	Last Name Gupta	Photograph 
Designation	Associate Professor in Botany		
Address	G-102, Kaveri apartments, Sector-6, Dwarka, New Delhi-110075		
Phone Number	Office		
	Residence		
	Mobile	9810023164	
Email Id	dr.maltigupta@gmail.com		
Educational Qualifications			
Degree	Institution	Year	
Ph. D. in Botany	University of Delhi	1987	
M. Phil. In Botany	University of Delhi	1982	
M. Sc. in Botany	University of Delhi	1981	
B. Sc. Hons. in Botany	University of Delhi	1979	
Career Profile			
TEACHING POSITION & EXPERIENCE			
<p>Associate Professor in Botany Department, Zakir Husain Delhi College, University of Delhi.</p> <p>In my 35 years of teaching experience, I have taught undergraduate students of Honours and General courses covering a wide spectrum of subjects and syllabi. Theory classes are fully supported by detailed practical classes. Students are encouraged to do in-depth study of the plant materials, make live sketches of the whole mounts as well as microscopic materials and analyze the results of the lab experiments in the most logical and relevant manner. The classroom teaching is supported by net surfing, multimedia presentations,</p>			

digital photography, e-lectures, and digitalized data analyses. The participation and interest of the students is further enhanced by seminars, debates, quizzes, multiple-choice questions, field visits and project reports. Besides, students are also trained and motivated and prepared to participate in various extra co-curricular activities, competitive as well as non-competitive, such as article writings, topic-based paper presentations, collage, posters and model making, street plays, debates, bio-philately etc.

Students are also taken to an out station field excursion where they are motivated to study the region specific flora in the light of the prevalent ecological and environmental features. They are exposed to flora collection techniques, field data collection and herbarium making during these trips.

I have organized various industrial visits for our students. Some of the notable ones are National Dairy Research Institute, NDRI Karnal, Haryana, Centre of Excellence For Vegetables: An Indo Israel Project & Rice Mill Near Karnal, Sugar Mill at Daurala, UP, Pottery Plants in and around Kurja, UP, Merino Ply Boards & Parle G factory at Bahadurgarh , Haryana, Mother Dairy Plant at Patparganj, New Delhi.

I have also taken students to lot of Research Institutes, some being National Agriculture Science Centre NASC complex, & National Bureau of Plant Genetic Resources, at Pusa Institute ; G B Pant Institute of Himalayan Ecology and Research & Vivekanand Parvatiya Krishi Anusandhan Sansthan, VPKS, at Kosi, Uttarakhand ; Indian Veterinary Research Institute & Central Institute of Temperate Horticulture at Mukteshwar, Uttarakhand, Central Potato Research Institute, Shimla, HP; Institute of Himalayan Bioresource Technology, Palampur, HP; Central Glass & Ceramic Research Institute, Khurja, UP; Forest research Institute at Dehradun, UK; Wildlife Institute of India , Dehradun, UK, excursion to Manali, Rohtang pass, Solang Valley, GBHIEBD, Regional station, IARI Regional Vegetable Crops, Research Institute at Katrain, Benjo-rey Great Himalayan National Park.

Administrative Assignments

1. Superintendent, Botany Practical examinations 2024-2025.
2. Convenor – Dr Virendra Kumar Rolling Shield Environment Quiz Competition, 2016-2025
3. Organised Botanical Excursion as Excursion Incharge from 15-19 October 2023, to Mukteshwar, Uttarakhand.
4. Convenor, Garden & Greening Committee 2016-2020.
 - a. Was Convenor of College gardens & Greens along with landscaping where I Headed a team of 8-10 faculty members and ~12 garden support staff. Introduced several new species in the college gardens and vacant spaces.
 - b. Improved perennial plant cover tremendously in the college campus. Seasonal flowering plants, perennial foliage plants, cacti & succulents, bonsai, hanging
 - c. baskets, along with the college herbal ,rose and Rock gardens. All these plants are raised from fresh stocks every year.
 - d. Planned, guided and oversaw preparations for participation in the Annual Delhi University Flower Shows for four years in a sequence.
 - e. Netted more than hundred prizes and 10 cups from all over the entries under various categories in the Delhi University Flower show each year.
5. Member, IQAC Subcommittee: 2021 – 2022
6. Coordinator, Museum manager, Herbarium Upkeep, Digitalization, Referencing, Indexing, Collection and additions of new materials, 2002-2020.
7. Convenor, Nature & Environment club for many years 2009-2015.
8. Chairperson for College Complaints Committee Against Sexual Harassment (ICC) from 2010--2014
9. Convenor & member, Woman Development Cell of the college for four years 2010-2016.
10. Convenor, Academic advisory committee 2015-2018.
11. Convenor, Food Committee, Convocation Organizing Program: 2012– 2019.
12. Convenor, Academic Supervisory Committee of the College 2015-2016

13. President, Botanical Society 2016-2017
14. Convenor, Life Science Society of the College 2014-2016
15. Convenor, Woman Development Cell 2012-2014
16. Member, Internal Complaints Committee of the College 2014-2016
17. Superintendent, Practical Examinations 2015-2016
18. was the Head Examiner for setting and evaluating theory papers for various subjects several times during the Centralized Annual Examinations.
19. Served as the Teacher-In- Charge, President of Botanical society and Superintendent of Practical examinations of Botany Department of our college several times.
20. Worked as member of the Moderation Committee for theory papers of the University of Delhi.
21. Worked as member Committee of Courses for the Syllabi up-gradation and appointment of Examiners for Theory as well as Practical examinations in Botany for all colleges of Delhi University.
22. In last 10 years, made significant contributions towards the designing, framing and the paper contents in the recently introduced Four Year Undergraduate Programme, FYUP, and the earlier Semester System in Botany by Delhi University as a Member, Committee of Courses.
23. Was a Founder Member and Coordinator for a Certificate Course on Energy & Environment under the auspices of 'Centre for Science Education and Communications' University of Delhi 2000-2004.
24. Was The Co-Ordinator, Editorial Board - Science Magazine, Spectrum for three years 2005-2008.
25. Was on the panel of Student advisory Board of the college 2008-20010.

Areas of Interest / Specialization

Plant Physiology, Plant Ecology, Plant Anatomy, Reproductive Biology of Angiosperms , Intellectual Property Rights(IPR) , Economic Botany & Plant Resources Utilization, Plant biotechnology and biotechniques.

Subjects Taught

Plant Physiology, Plant Anatomy, Plant Resource Utilization, Advanced Ecology and Environmental Management, Reproductive Biology of Angiosperms, Plant Biotechnology and Techniques, Intellectual Property Rights

Publications Profile

- Asmita Gupta, Kristina Medhi, Malti Gupta , I.S. Thakur 2017 . Advances in the Application of Bacterial Exopolysaccharides: A Review, 157-166, in Scope of Phytochemically Unexplored Medicinal Plants, eds Savindra Kumar, Mrinal Bhargava, Ratnum Kaul Wattal, Tabassum Jehan
- Malti Gupta and Shivanna KR 2002 Cross ability barriers between cultivated and wild species of *Cicer*; Advances in Legume Research in India, Ed. RR Rao: 495-510.ISBN-10:8121102731
- Malti, Shivanna KR & SK Sinha 1988 Wild hybridization in Chickpea: Crossability barriers; Proceedings 74th Indian Science Congress Session.
- Malti 1987 Interspecific hybridization in *Cicer*; Paper presented in 74th Indian Science Congress.
- Malti and Shivanna KR 1985 The role of the pistil in screening compatible pollen; Theoretical and Applied Genetics(TAG) 70:684-686. ISSN-0040-5752//1432-2242// Impact Factor (2016)3.790
- Malti and Shivanna KR 1984 Structure and cytochemistry of the pistil of *Crotalaria retusa L*; Proceedings of Indian National Science Academy B50 No. 1: 92-102. ISSN-0369-8211//Impact Factor (2016)0.40
- Malti and Shivanna KR 1983 Pollen pistil interaction in Chickpea; Intl Chickpea Newsletter 9:10-11. ISSN None HI 84150

Conference Organization/ Presentations

1. Organised a Digital Upskilling workshop for Lab staff of Botany Department
 2. Organised a Refresher Course on Lab Techniques for Lab Staff, from 7-11th February, 2022, under the aegis of IQAC, as Convenor, organized by Department of Botany , Zakir Husain Delhi College
 3. Was a resource person – Mechanics of Microscope , during a refresher course on Lab Techniques for Lab Staff, organized by Department of Botany, Zakir Husain Delhi College, from 7-11th February, 2022, under the aegis of IQAC.
 4. Organised a Webinar on “Let’s learn Hydroponics- The future of smart Farming “ as Co- Coordinator, on October 5, 2021 at Zakir Husain Delhi College.
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5. National webinar on “Role of Plants during Covid19 Pandemic” organized by Dept. of Botany, Shri Krishna University, Chhatarpur (M.P.) on 27th September, 2021. Presented a paper on the topic “Health in fruits”.
 6. Organised a Webinar as Convenor On Intellectual Property Rights: An overview, by Professor H. S. Chawla, Head, Department of Genetics and Plant Breeding (Former) G B Pant University of Agriculture and Technology, Pantnagar- Uttarakhand on October 7, 2020.
 7. **Convenor- National Symposium On “Biotechnology in Crop Improvement: Prospects & Challenges”, April 1, 2016, at Zakir Husain Delhi College.**
 8. Member Organising Committee of Symposium on Life and Works of Charles Darwin, 2010, at Zakir Husain Delhi College.
 9. Organised an Exhibition on “The Life and Works of Charles Darwin” to commemorate his Bi-Centenary Birth celebrations in 2010, at Zakir Husain Delhi college.

Awards and Distinctions

Recipient of ISCA Young Scientist Award 1987, by the Indian Science Congress Association (ISCA). The award was presented by Honorable Late Prime Minister of India, Mr Rajiv Gandhi.

Appreciation Certificate received from University of Delhi

This is to certify and appreciate the contribution of DR. MALTI GUPTA of ZAKIR HUSSAIN COLLEGE for the timely evaluation of answer scripts of the Semester Examination held in May-June 2022.

Appreciation Certificate received on January 2024 for the Semester Examination held in December 2023.

Association With Professional Bodies

Life Member, Delhi University Botanical Society, Department of Botany, University of Delhi.

Other Activities

1. Member of the committee constituted by the Department of Botany, University of Delhi, in the Department of Botany to discuss and prepare guidelines for practical examination of the Core course 'Reproductive Biology of Angiosperms of B.Sc.(H) Botany. A meeting was held on July 22,2024.
2. Participated in Webinar on “**भगवद्गीता में कर्मयोग**” held on 11th December, 2024, organized by BHASKARACHARYA COLLEGE OF APPLIED SCIENCES, Dr. Avneesh Mittal Patron 11.12.2024 Dr. Shikha Srivastava Convener, IKS Club INDIAN KNOWLEDGE SYSTEM CLUB “**ववस्वान** ” (Under the Aegis of IQAC) .
3. Participated in International Conference cum Workshop on Making Sense of Omics: Proteomics, Transcriptomics and Molecular Drug Design (Hybrid Mode) , 23-24 April, 2024, Zakir Husain Delhi College.
4. Has participated in the Three-Day Training on Handling Plagiarism and References Management using Mendeley organized by Dept. of Research & Publications, A2Z EduLearningHub LLP on 27th, 28th & 29th February 2024.
5. External examiner for Anatomy of Angiosperms, at Miranda House during 2022-2023.

6. Was a member of organizing committee in National Workshop on Statistical Analysis of Biological Data, Department of Botany, Zakir Husain Delhi College, five-week-long from 17th January- 21st February, 2022.
7. National Workshop on Bioinformatics: Resources, Tools and its applications, Organised by Botany Department, Zakir Husain Delhi College, from 19th-27th July , 2021.
8. National Webinar on Deciphering Mucormycosis and its post COVID surge, on 18th June 2021, organized by Department of Botany, Zakir Husain Delhi college.
9. Webinar on Colors in Nature on 22 August, 2020, organized by Kirori Mal College, University of Delhi.
10. Webinar on Shift in Paradigm: Online Education , From 9Th-11Th June , 2020. , organized by Mahatma Hansraj Faculty Development Center under PMMMMNMTT
- 11.** Webinar on Medicinal Plants: Eternal source of Health & Wellness, on June 17, 2020, organized by Swami Shraddhanand College, University of Delhi.
12. Workshop on Plant Tissue Culture, 8-9 March , 2019, Department of Botany , Zakir Husain Delhi College, University of Delhi.
13. Workshop on Analytical Instrumentation Techniques , 6-7 October 2018, Department of Botany in association with M/s Instrument Analytica Pvt Ltd, Gurugram , Zakir Husain Delhi College, University of Delhi.
14. Workshop on Art of Writing & Communication Skills , 16-23 July, 2018, Department of Botany , Zakir Husain Delhi College, University of Delhi.
15. National Conference on Genetics- environment Interface: Science and Spirituality ; organized in memory of Dr Virendra Kumar on 25 January, 2018, Department of Botany , Zakir Husain Delhi College, University of Delhi.
16. National Conference on Challenges and Strategies to Improve Crop Productivity in Changing Environment : An Integrated Approach. 12 January, 2018, Department of Botany , Zakir Husain Delhi College, University of Delhi.

17. Bonsai workshop, 22 March 2018, Department of Botany , Miranda House, university of Delhi , along with Indian Bonsai association.
18. National workshop on Biostatistics, 9-10 March 2017, Department of Botany & Department of Mathematics , Zakir Husain Delhi College, University of Delhi.
19. National Conference on Pharmacognosy: Scope of Phytochemically un explored Medicinal Plants, 12th January, 2017, Department of Botany , Zakir Husain Delhi College, University of Delhi.
20. Workshop on Basic Techniques in Plant Tissue Culture , 14-16 July 2016, Department of Botany , Zakir Husain Delhi College, University of Delhi.
21. Workshop on Biofertilizers, 4-13 July 2016, Department of Botany , Zakir Husain Delhi College, University of Delhi.
22. Impact Conclave –Realising Billion Dreams, The Lalit, 21-22 April 2016. Organised by SAMBODHI-Knowledge for Change.
23. IPR Workshop: Training the Trainers, January 15, 2016 at Miranda House, Delhi University
24. National Symposium on Environmental Contamination and Public Health, 24th August, 2015, at Zakir Husain Delhi College, University of Delhi
25. Workshop on Reproductive Biology Of Angiosperms, 16-17th March, 2015, Department of Botany of Dyal Singh College along with ILL, UDSC, Delhi University.
26. Workshop on Microscopy: Techniques and Applications, 27-28 September 2011, At Miranda House , Delhi University
27. Workshop on Evolutionary Perspective In Modern Biological Teaching And research, 9-10th May, 2011 by ILL & ANDC, University of Delhi.
28. ILL Workshop Tier II, 8th April-15th April , 2010 for Capacity Building of Delhi University Faculty.
29. Workshop on Biology Laboratory Course, 2-4, September, 2008, at Daulat Ram College, Delhi University.

30. National Conference on Wetlands, Science and Society- An assessment of Their Integration, December 11-13, 2007, by Department of Botany, University of Delhi.
 31. Professional Workshop on Environment and Quality of life: Canada and India, April 1-21, 2003, at Centre For Canadian studies , University of Delhi. **Presented a Paper Promotion Of Eco-tourism**
 32. Workshop on Methods and Approaches in Plant Taxonomy, October 26-November 7, 1999, at NBRI, Lucknow.
 33. National Symposium on Advances in Legume Research in India, December 15-17, 1998, at NBRI, Lucknow, presented a paper on Interspecific Hybridization in Cicer.
 34. Training programme on Dehydrated Floral Craft at Floriculture section, on September 21-25, 1998, at NBRI, Lucknow.
 35. Solar Cooking training Course, 25 June -5 July, 1997, organized by Non-Conventional Energy Development Agency, U. P. , Lucknow.
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36. Course Content Developer of programmes like Botany Hons and Life science , The Design & development of curriculum several times , during Annual Degree system and then during Semester degree systems for various subjects. 2000-2025.
 37. Theory Examination, Active participation in evaluating examination scripts each semester and year: 1991-2025.
 38. Mentored students for organization of cocurricular activities and events under the banner of Botanical Society, towards Debates, Quizzes, Model making, Bio-philately, Digital microscopy, e- Content preparation & presentations, Macro- micro level photography and printing, ZHDC/Botany Department.
 39. Field visits were organized each year to Ecological importance sites local as well as Outstation. Motivated, guided students for analyzing region specific flora, ecology & environmental factors, flora collection & processing, field data collection & analysis, Herbarium making techniques details . Flora detailing in the light of ecological & environmental factors ZHDC/Botany Department.
 40. Visits were organized to Institutes & Industries for exposure to onsite research labs, to learn modern research methodologies and about career opportunities.